

SEQUENCE LISTING

<110> Paszty, Christopher  
Gao, Yongming

<120> Cysteine Knot Polypeptides: Cloaked-2 Molecules and Uses Thereof

<130> 01017/37428A

<150> US 60/208,550

<151> 2000-06-01

<150> US 60/223,542

<151> 2000-08-04

<160> 25

<170> PatentIn version 3.0

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<211> 759

<212> DNA

<213> Homo sapiens

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ttcaagaatg atgccacgga aatcatcccc gagctcggag agtaccgccga gcctccaccg      180
gagctggaga acaacaagac catgaaccgg gcggagaacg gagggcggcc tccccaccac      240
ccctttgaga ccaaagacgt gtccgagtac agctgccgcg agctgcactt caccgcgtac      300
gtgaccgatg ggccgtgccg cagcgccaag ccggtcaccg agctggtgtg ctccggccag      360
tgcgggcccgg cgcgcctgct gcccacgcc atcggccgcg gcaagtgggtg gcgacctagt      420
gggcccgact tccgctgcat ccccgaccgc taccgcgcgc agcgcgtgca gctgctgtgt      480
cccggtggtg aggcgcgcgc cgcgcgcaag gtgcgcctgg tggcctcgtg caagtgcaag      540
cgctcaccc gcttcacaaa ccagtcggag ctcaaggact tcgggaccga ggccgctcgg      600
ccgcagaagg gccggaagcc gcggccccgc gcccgagcgc ccaaagccaa ccaggccgag      660
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Met	Asn	Arg	Ala	Glu	Asn	Gly	Gly	Arg	Pro	Pro	His	His	Pro	Phe	Glu
		35					40					45			
Thr	Lys	Asp	Val	Ser	Glu	Tyr	Ser	Cys	Arg	Glu	Leu	His	Phe	Thr	Arg
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Tyr	Val	Thr	Asp	Gly	Pro	Cys	Arg	Ser	Ala	Lys	Pro	Val	Thr	Glu	Leu
65					70					75					80
Val	Cys	Ser	Gly	Gln	Cys	Gly	Pro	Ala	Arg	Leu	Leu	Pro	Asn	Ala	Ile
				85					90					95	
Gly	Arg	Gly	Lys	Trp	Trp	Arg	Pro	Ser	Gly	Pro	Asp	Phe	Arg	Cys	Ile
			100					105					110		
Pro	Asp	Arg	Tyr	Arg	Ala	Gln	Arg	Val	Gln	Leu	Leu	Cys	Pro	Gly	Gly
		115					120					125			
Glu	Ala	Pro	Arg	Ala	Arg	Lys	Val	Arg	Leu	Val	Ala	Ser	Cys	Lys	Cys
	130					135					140				
Lys	Arg	Leu	Thr	Arg	Phe	His	Asn	Gln	Ser	Glu	Leu	Lys	Asp	Phe	Gly
145					150					155					160
Thr	Glu	Ala	Ala	Arg	Pro	Gln	Lys	Gly	Arg	Lys	Pro	Arg	Pro	Arg	Ala
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Arg	Ser	Ala	Lys	Ala	Asn	Gln	Ala	Glu	Leu	Glu	Asn	Ala	Tyr		
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ggagagtacc ccgagcctcc tcctgagaac aaccagacca tgaaccgggc ggagaatgga	180
ggcagacctc cccaccatcc ctatgacgcc aaagatgtgt ccgagtacag ctgccgcgag	240
ctgcactaca cccgcttcct gacagacggc ccatgccgca gcgccaagcc ggtcaccgag	300
ttggtgtgct ccggccagtg cggccccgcg cggctgctgc ccaacgccat cgggcgcgtg	360
aagtgggtggc gcccgaaagg accggatttc cgctgcatcc cggatcgcta ccgcgcgcag	420
cgggtgcagc tgctgtgccc cgggggcgcg gcgccgcgct cgcgcaaggt gcgtctggtg	480
gcctcgtgca agtgcaagcg cctcaccgcg ttccacaacc agtcggagct caaggacttc	540
gggccggaga ccgcgcggcc gcagaagggt cgcaagccgc ggcccggcgc ccggggagcc	600

aaagccaacc aggcggagct ggagaacgcc tactag

636

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Arg Ala Glu Asn Gly Gly Arg Pro Pro His His Pro Tyr Asp Ala Lys  
35 40 45  
Asp Val Ser Glu Tyr Ser Cys Arg Glu Leu His Tyr Thr Arg Phe Leu  
50 55 60  
Thr Asp Gly Pro Cys Arg Ser Ala Lys Pro Val Thr Glu Leu Val Cys  
65 70 75 80  
Ser Gly Gln Cys Gly Pro Ala Arg Leu Leu Pro Asn Ala Ile Gly Arg  
85 90 95  
Val Lys Trp Trp Arg Pro Asn Gly Pro Asp Phe Arg Cys Ile Pro Asp  
100 105 110  
Arg Tyr Arg Ala Gln Arg Val Gln Leu Leu Cys Pro Gly Gly Ala Ala  
115 120 125  
Pro Arg Ser Arg Lys Val Arg Leu Val Ala Ser Cys Lys Cys Lys Arg  
130 135 140  
Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly Pro Glu  
145 150 155 160  
Thr Ala Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Gly Ala Lys Ala  
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180 185

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<212> PRT  
<213> Homo sapiens

<400> 5

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Ala Thr Glu Ile Ile Pro Glu Leu Gly Glu Tyr Pro Glu Pro Pro Pro  
35 40 45

Glu Leu Glu Asn Asn Lys Thr Met Asn Arg Ala Glu Asn Gly Gly Arg  
50 55 60

Pro Pro His His Pro Phe Glu Thr Lys Asp Val Ser Glu Tyr Ser Cys  
65 70 75 80

Arg Glu Leu His Phe Thr Arg Tyr Val Thr Asp Gly Pro Cys Arg Ser  
85 90 95

Ala Lys Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala  
100 105 110

Arg Leu Leu Pro Asn Ala Ile Gly Arg Gly Lys Trp Trp Arg Pro Ser  
115 120 125

Gly Pro Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val  
130 135 140

Gln Leu Leu Cys Pro Gly Gly Glu Ala Pro Arg Ala Arg Lys Val Arg  
145 150 155 160

Leu Val Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln  
165 170 175

Ser Glu Leu Lys Asp Phe Gly Thr Glu Ala Ala Arg Pro Gln Lys Gly  
180 185 190

Arg Lys Pro Arg Pro Arg Ala Arg Ser Ala Lys Ala Asn Gln Ala Glu  
195 200 205

Leu Glu Asn Ala Tyr  
210

<210> 6  
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Ala Thr Glu Val Ile Pro Gly Leu Gly Glu Tyr Pro Glu Pro Pro Pro  
35 40 45

Glu Asn Asn Gln Thr Met Asn Arg Ala Glu Asn Gly Gly Arg Pro Pro  
50 55 60

His His Pro Tyr Asp Ala Lys Asp Val Ser Glu Tyr Ser Cys Arg Glu  
65 70 75 80

Leu His Tyr Thr Arg Phe Leu Thr Asp Gly Pro Cys Arg Ser Ala Lys  
85 90 95

Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala Arg Leu  
100 105 110

Leu Pro Asn Ala Ile Gly Arg Val Lys Trp Trp Arg Pro Asn Gly Pro

115		120		125
Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val Gln Leu				
130		135		140
Leu Cys Pro Gly Gly Ala Ala Pro Arg Ser Arg Lys Val Arg Leu Val				
145		150		155
Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu				
	165		170	175
Leu Lys Asp Phe Gly Pro Glu Thr Ala Arg Pro Gln Lys Gly Arg Lys				
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Pro Arg Pro Gly Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr				
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24

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26

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cgatccggga tgcagcggaa gtcg

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<223> Artificial: PCR primer

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<210> 13

<211> 23

<212> DNA

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<220>

<223> Artificial: PCR primer

<400> 13

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23

<210> 14

<211> 25

<212> DNA

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25

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ccatcctaata acgactcact atagggc 27  
  
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 <223> Artificial: PCR primer

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<210> 23  
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 <212> PRT  
 <213> Artificial: HIV TAT peptide

<400> 23

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg  
 1 5 10

<210> 24  
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 <212> PRT  
 <213> Artificial

<220>  
 <223> Artificial: FITC conjugated - HIV TAT peptide construct

<400> 24

Gly Gly Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg  
 1 5 10 15



